

Fig. 1

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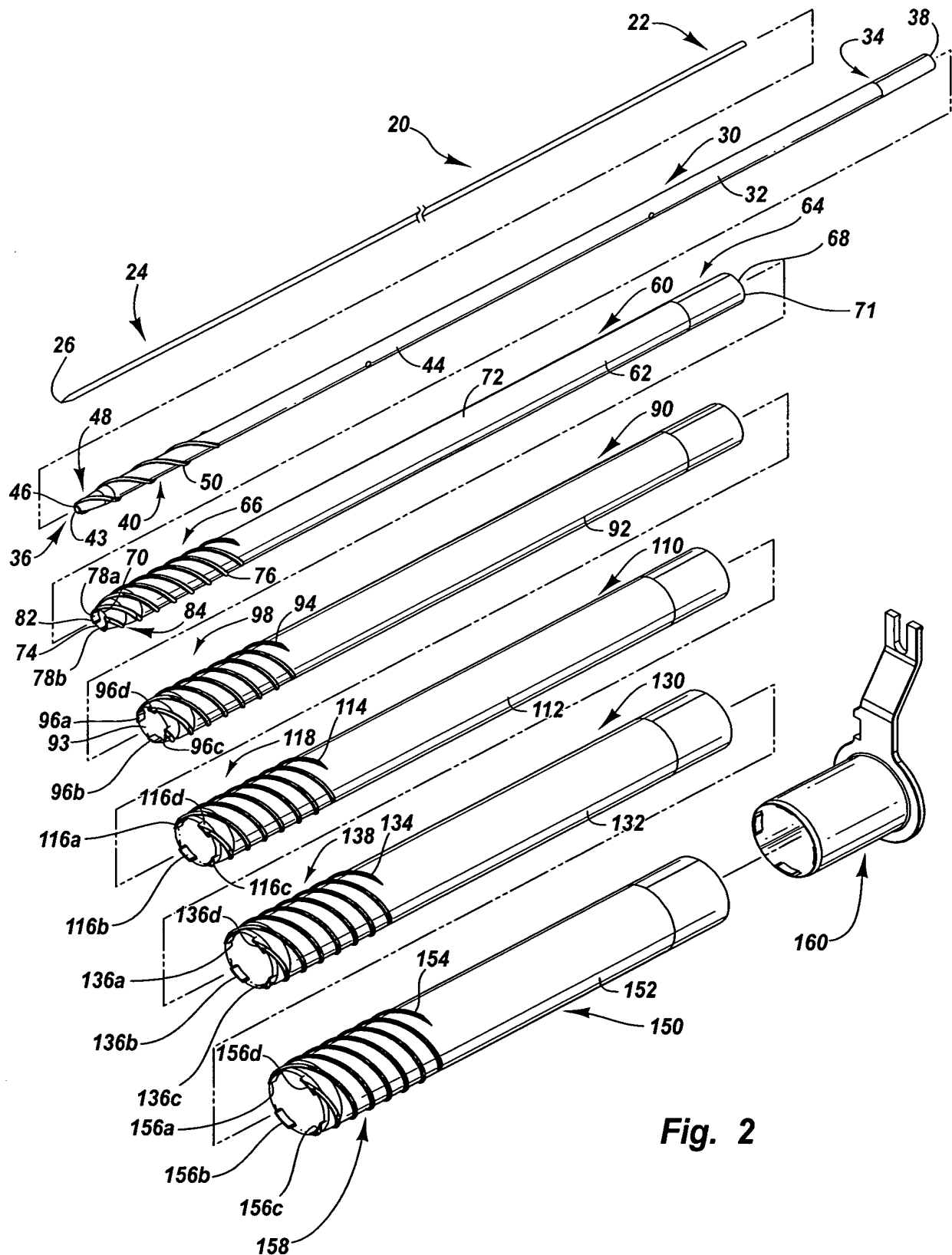


Fig. 2

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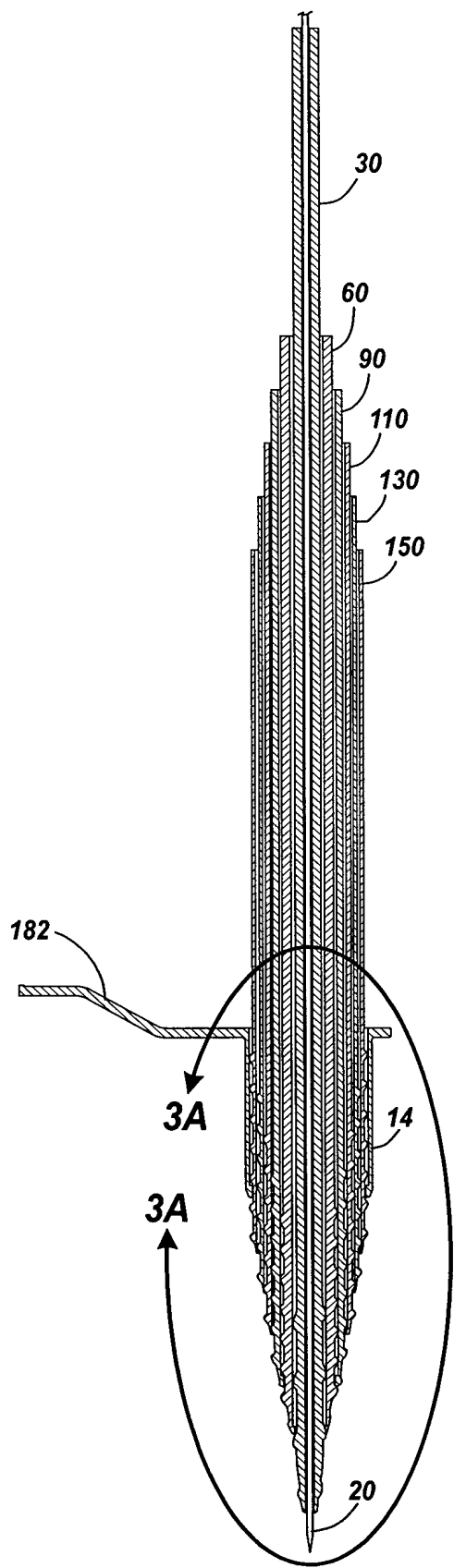


Fig. 3

Fig. 3A

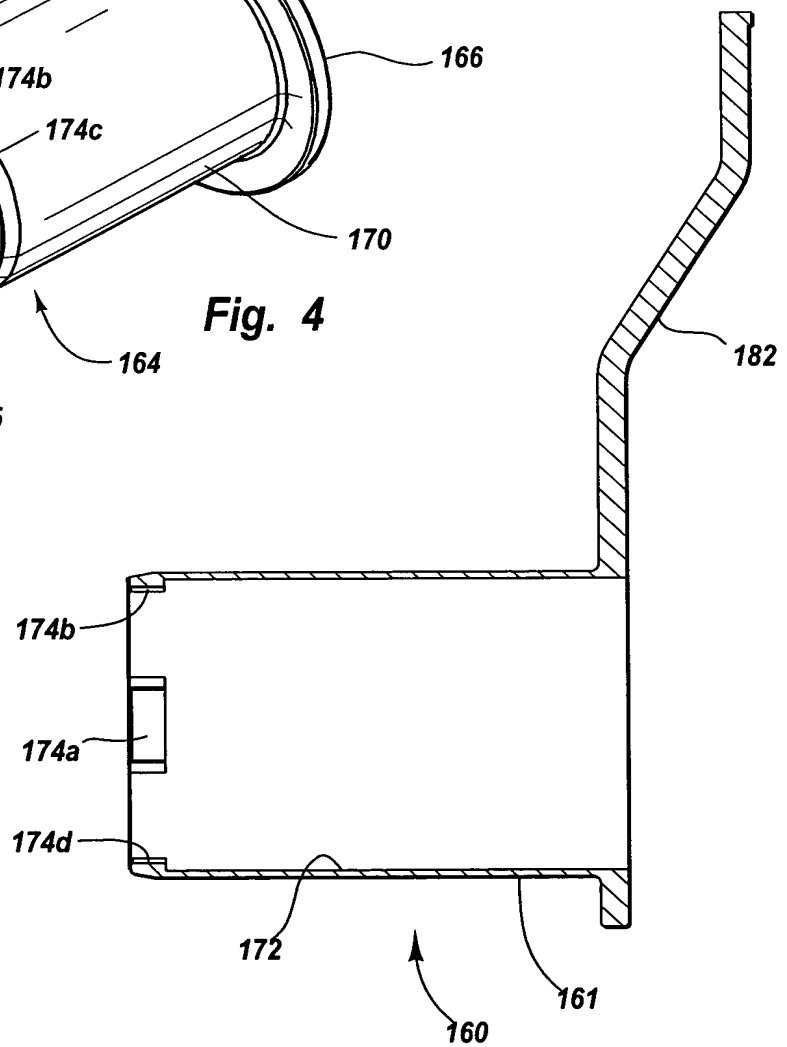
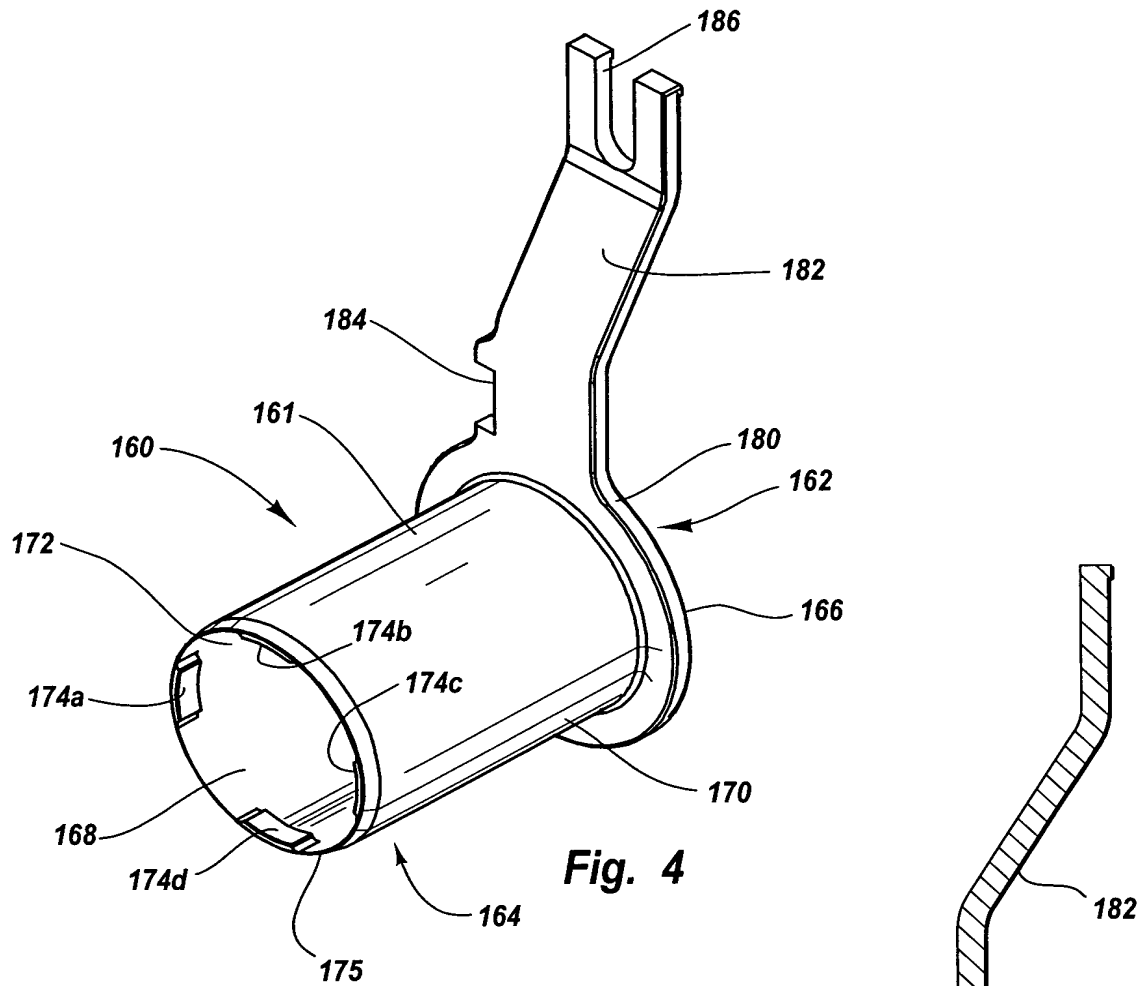


Fig. 5

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Fig. 6A

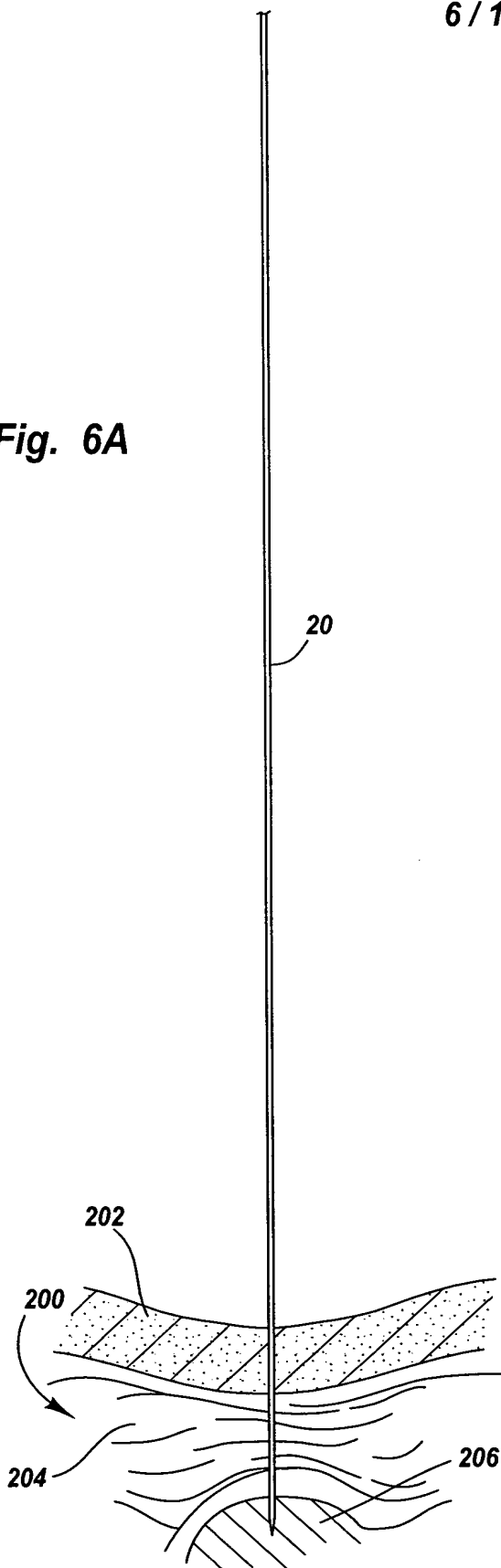


Fig. 6B

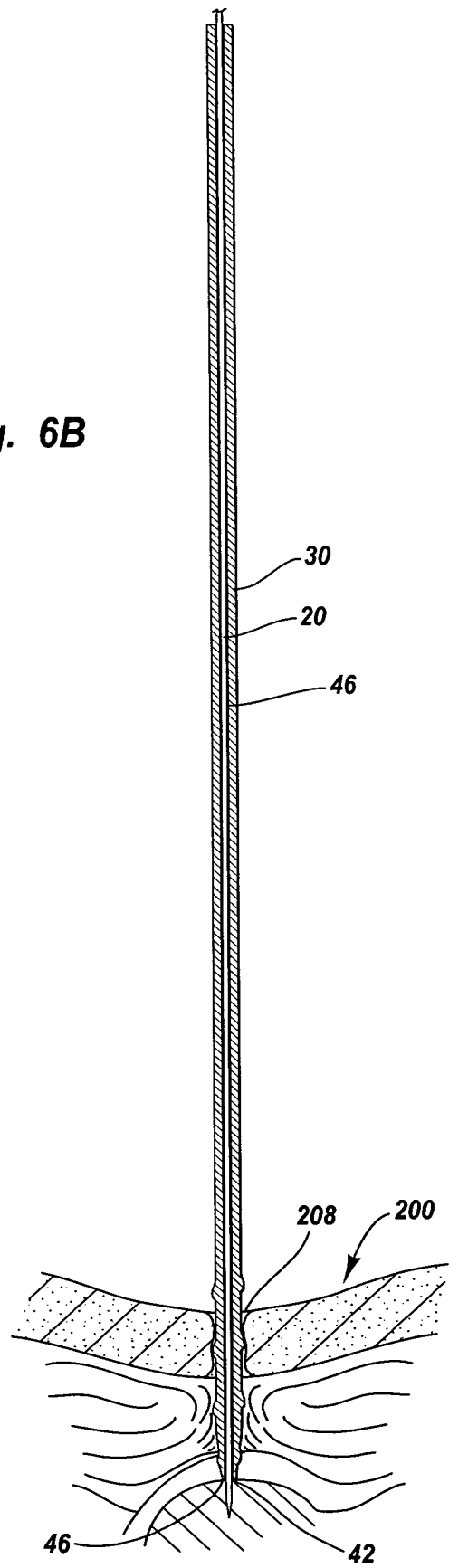


Fig. 6C

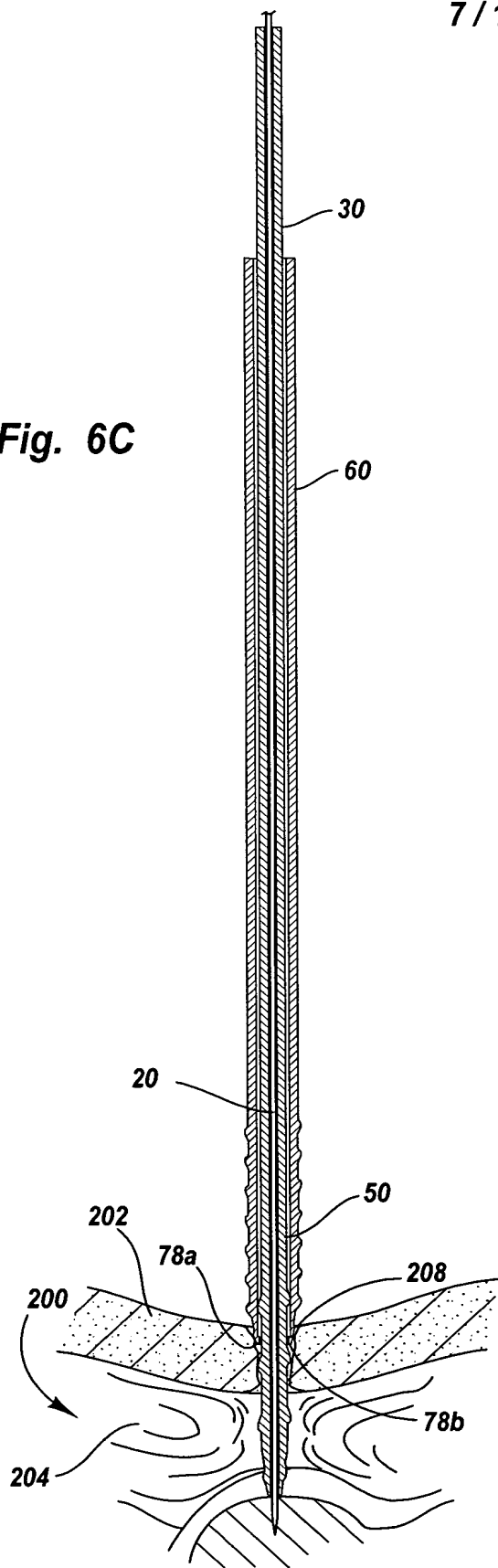
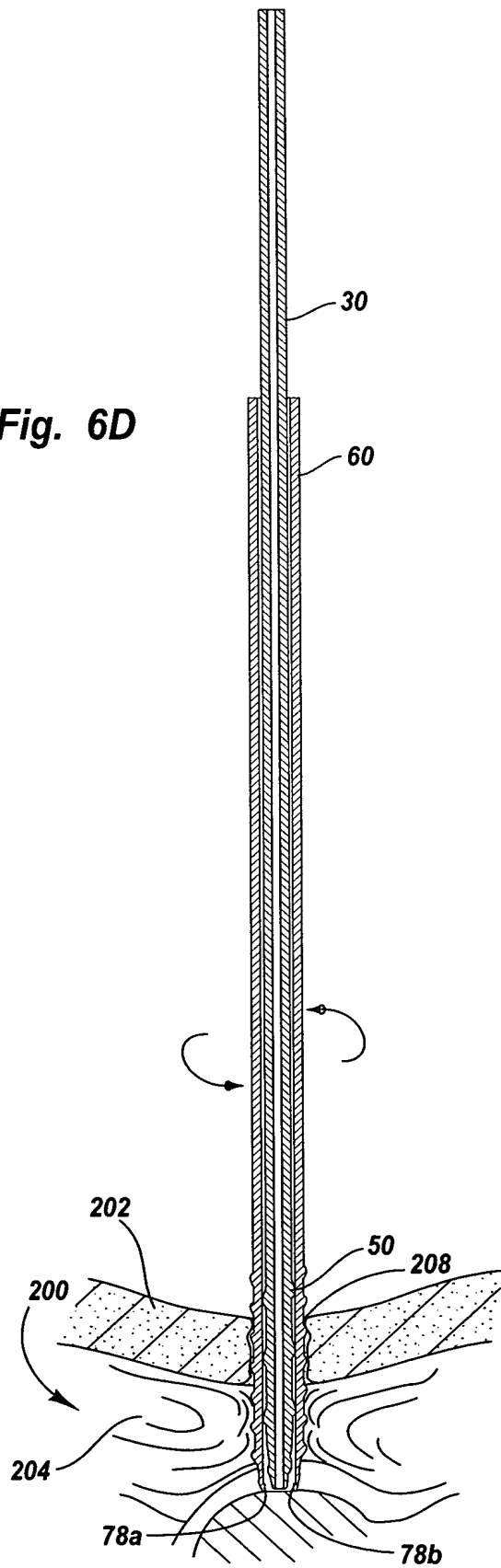


Fig. 6D



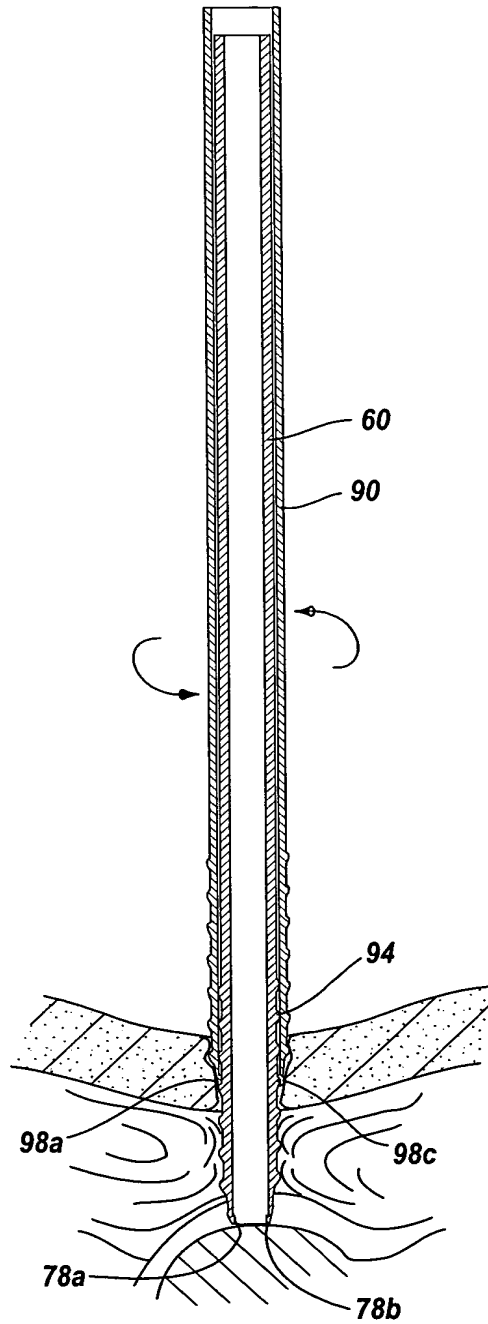


Fig. 6E

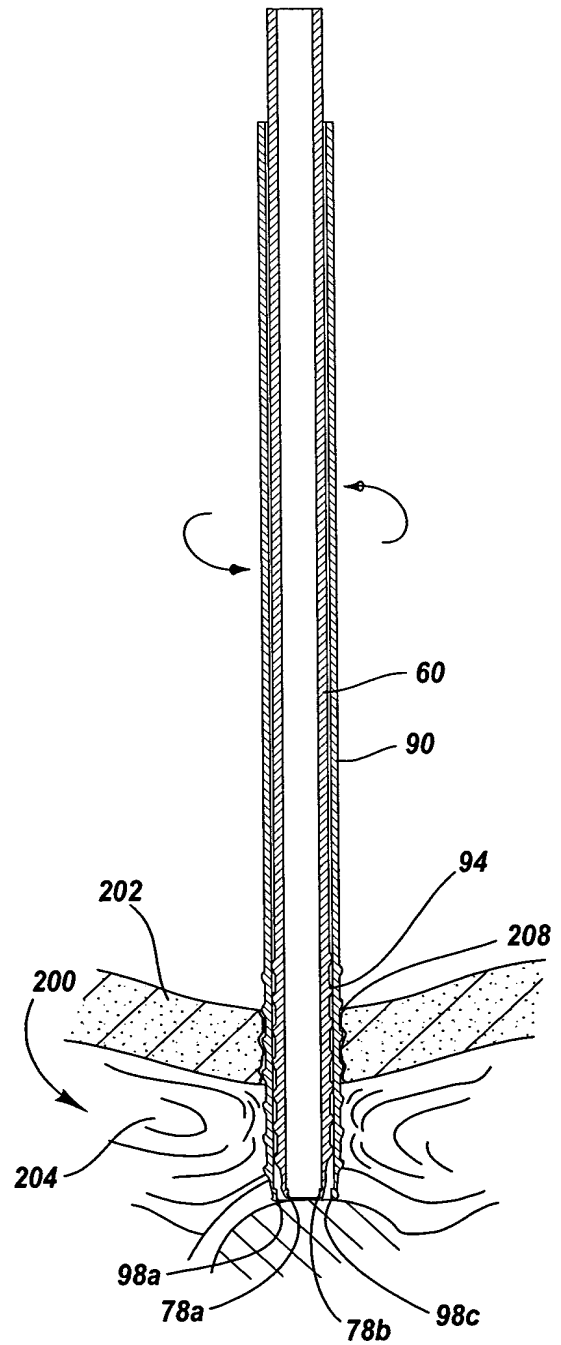


Fig. 6F

Fig. 1 is a schematic diagram of a vertical wellbore assembly. A central shaft (110) is surrounded by a casing (130). The casing has a textured outer surface. At the bottom, a wellhead (200) is shown with a curved flow path (202) leading to a reservoir (204). A wellbore (208) is also indicated.

Fig. 6H

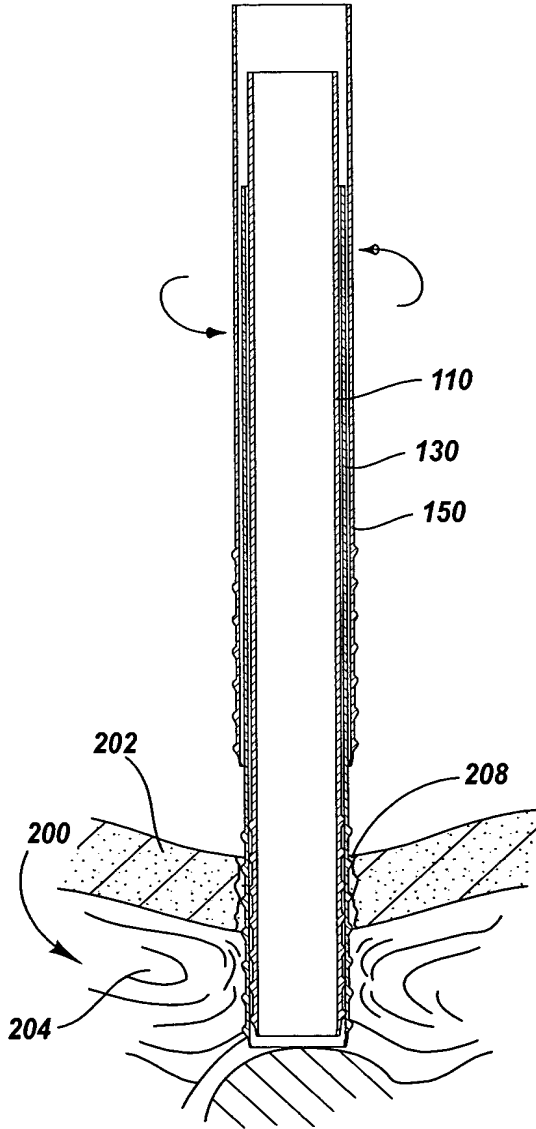


Fig. 6I

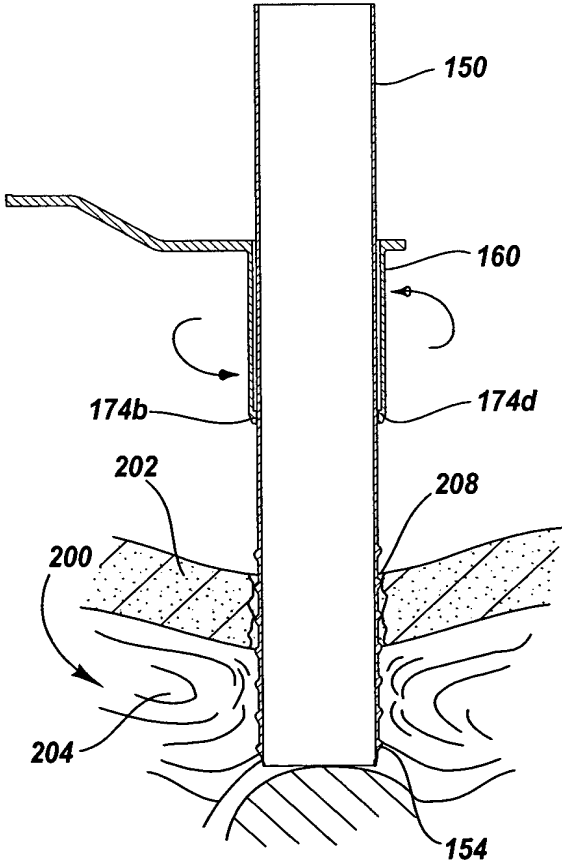


Fig. 6J

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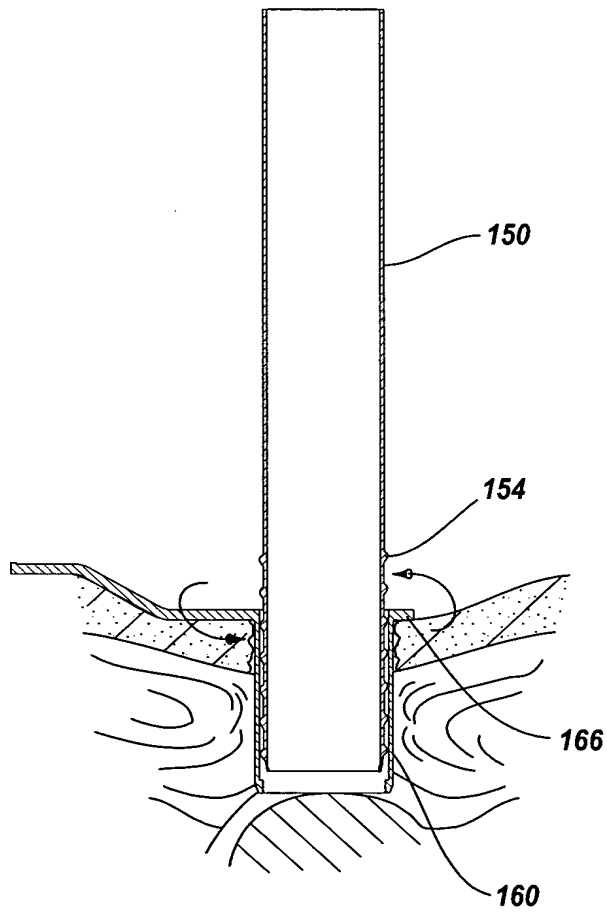


Fig. 6K

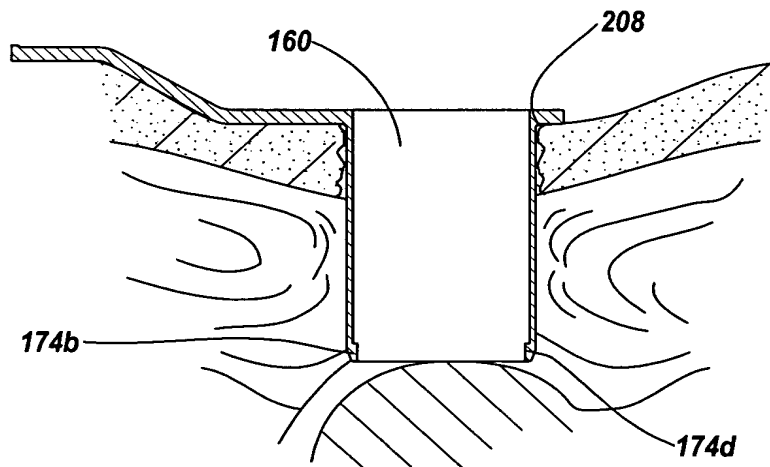


Fig. 6L

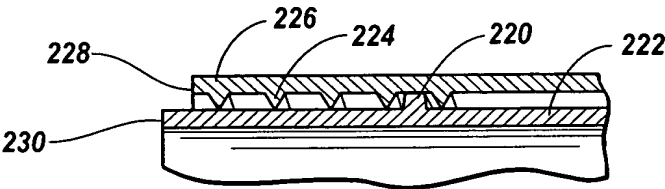


Fig. 7

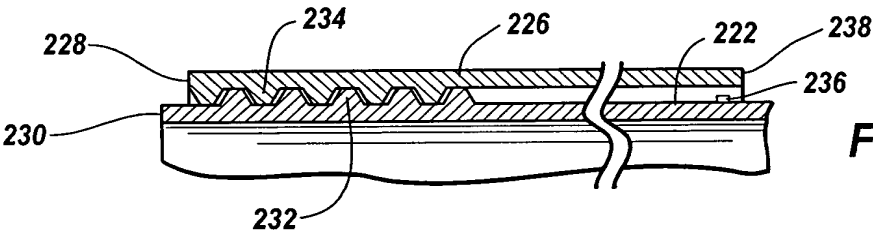


Fig. 8

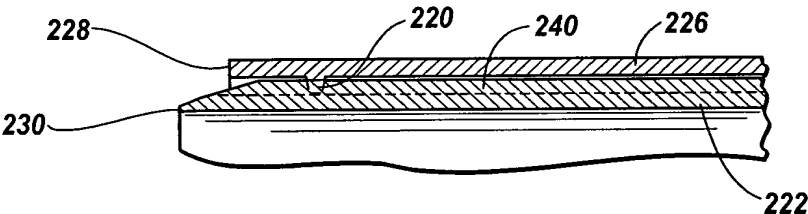


Fig. 9A

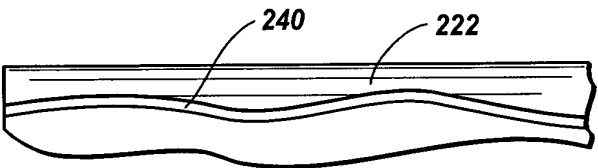


Fig. 9B

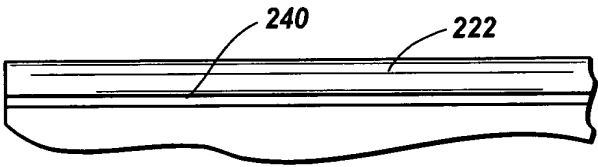


Fig. 9C

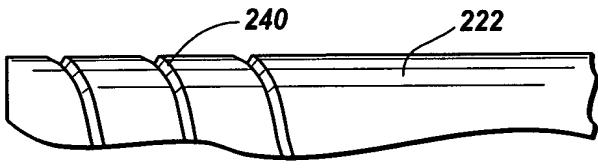


Fig. 9D

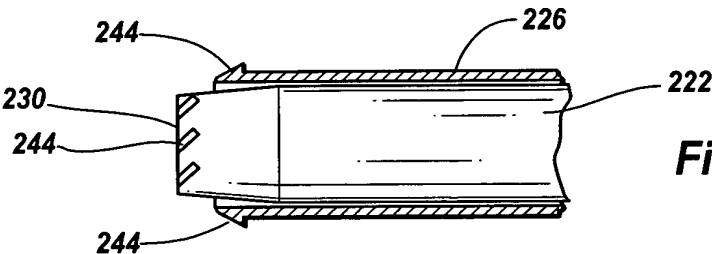


Fig. 10